WELCOME TO VERY SHALLOW WATER MINE COUNTERMEASURES UNMANNED UNDERWATER VEHICLE FOR MINE NEUTRALIZATION

INDUSTRY DAY!

19 July 2005

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Assistant Program Manager for Underwater EOD Acquisition

Purpose

- Provide information to industry members on a notional acquisition strategy, related programmatic details from senior government stakeholders and the timeline ahead for issuance of the RFP and supporting documentation.
- Solicit final input from industry in order to obtain a producible end item for the Navy.
- ***This event does not obligate the USN to any future acquisition or procurement action***

WE WANT YOUR INPUT!!

Agenda

TIME	EVENT	PRESENTER
0830	Check-in	
0900	Introductory Remarks -Purpose of Industry Day -Agenda - Program Background	*Mr. Rob Simmons- PMS-EOD*
0920	CNO Perspective	*CDR Adam Guziewicz, OPNAV N757*
0940	Program Overview -Acquisition Strategy (Spiral Development) -Milestone and Schedule	*Mr. John Dudinsky- NSWC-PC*
1000	Naval Special Clearance Team-One -Concept of Operations for VSW Mine Hunting	*LT John Schiller-NSCT-1*
1020	Break	
1040	VSW Environmental Characterization	*Mr. Bob Olds-SSC-SD*
1100	AN/ASQ-232 AMNS VSW Demo Overview	*Mr. Paul Moser-NSWC-PC*
1120	UUV-N Technology Interests	*Mr. Jim Rumbough-NSWC-PC*
1140	Open Discussion/ Q&A Period	*All*
1200	Wrap-up	*PMS-EOD*

End of Intro

NSCT 1
Unmanned Underwater Vehicle Program

UUV-N Program Background

July 19, 2005

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PMS-EOD-3

Navy UUV Master Plan and the Navy Small UUV Strategic Plan

The Navy
Unmanned Undersea Vehicle
(UUV)
Master Plan

DASN LMW
Nov 8 2004

A Navy Strategic Plan for
Small Unmanned Underwater Vehicles

Fielding Capability Packages to
Counter Unexploded Ordnance
in support of
Naval Expeditionary Warfare
28 June 2002

Acting Director, Expeditionary Warfare Division
Chief of Naval Operations (CNO N75)

Deputy and Chief of Staff, U.S. Atlantic Fleet

Program Executive Officer,
Mine and Undersea Warfare

Customers: Fleet Operators

Naval Special Clearance Team ONE
and
EOD Mobile Units and Mobile Diving Salvage Units

EOD Fleet operators currently operating UUVs:

- EODGRU ONE
  - EODMU SEVEN
- EODGRU TWO
  - MDSU TWO

Mission focus on:

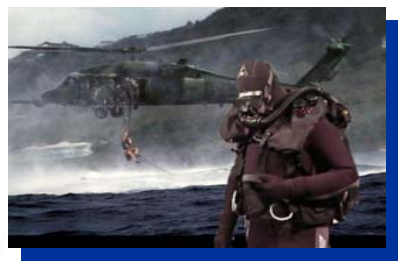
- Underwater Ordnance Detection
- Reacquisition
- Location
- Neutralization
- Recovery, and Exploitation Missions
- Salvage Operations

NSCT-1 charter combines 3 Communities:

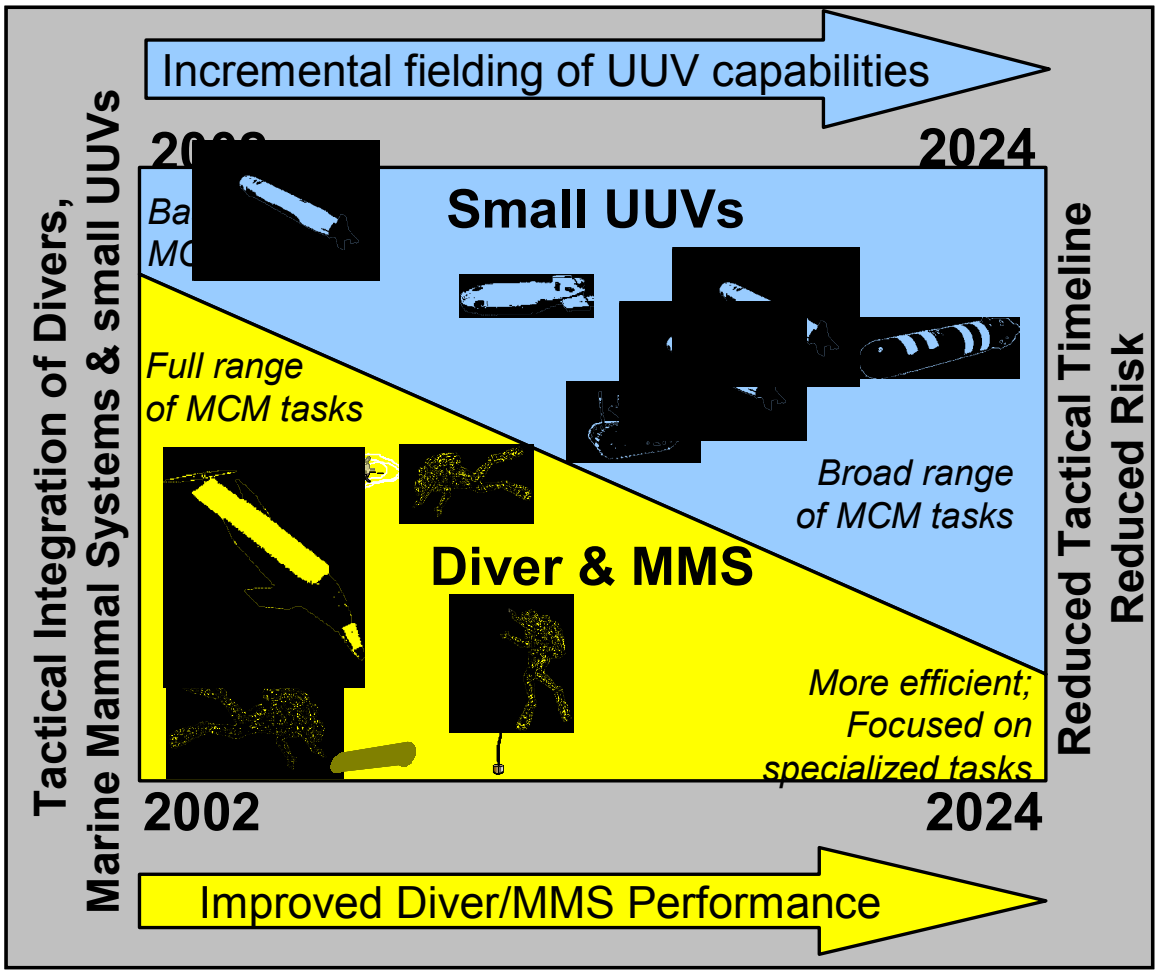
- Naval Special Warfare
- USMC Reconnaissance
- Explosive Ordnance Disposal

Consists of <u>3 Platoons</u>:

– Marine Mammal Systems Platoon
– Unmanned System Platoon
– Diver Platoon



Historic Trend: Navy EOD Strategic Thrusts
The NSCT 1/EOD Underwater IED & UXO "Toolbag"



- ***Reduce risk to divers***
- ***Improve effectiveness and efficiency***
- ***Address EOD/NSCT 1 capability gaps***
- ***Sustain "small team" concept in spite of proliferating IED & UXO threats***
- ***Get man out of the minefield where possible (Diver Augmentation)***

Fleet Employment of UUVs

EOD FORCES

Operation IRAQI FREEDOM

- ***"The arrival of a relief ship laden with emergency supplies at the port of Umm Qasr on Friday followed several days of allied mine clearing efforts… in support of Operation Iraqi Freedom. The operation marked…the initial operational launch of Navy unmanned underwater vehicles, according to Rear Adm. Paul Ryan, Commander of Mine Warfare Command."***

  Inside the Navy, 31 March 2003

- ***"It's [NSCT-1 UUV Platoon] done a wonderful job for us over there in the Umm Qasr vicinity and we are looking forward to the end of the conflict to be able to tell the full story of the first operational deployment of UUVs."***

  RDML Paul Ryan, CMWC

  Inside the Navy , 31 Mar 2003

- ***"…[UUVs] gadgets were the main workhorses of the mine clearing effort… if one got blown up in the process, the relatively cheap price meant it would be no big deal."***

  LT Richard Haas, USN

  OIC, NSCT-1

  Inside the Navy ,31 Mar 2003

Specific EOD U/W & NSCT 1 Requirements Input(s)

- Analysis of Alternatives
  - » Mission Scenarios and Concepts of Operations;
  - » Identification of Performance Parameters;
  - » Determination of Technology Maturity Assessment
- Capabilities Development Documents (CDD) or Requirements Documents (RD)
  - » Identification of Key Performance Parameters
  - » Refinement of Performance Parameters, Threshold and Objective values
  - » Initial Outfitting Quantities per Service
- Determination of Initial Outfitting Quantities
- Product Improvement Process and Continuous Improvement Process
  - » Evolutionary acquisition
  - » Performance Parameters
  - » Implementation Strategy
  - » Quantities for production / retrofit

Evolutionary Acquisition

- Development processes to implement Evolutionary Acquisition Strategy
  - » Spiral Development: Desired capability is identified, but end-state requirements are not known at Program Initiation. Requirements for future increments dependent upon technology maturation and user feedback from initial increments
- Evolutionary acquisition strategies shall be preferred approach to satisfying operational needs.
- Spiral development shall be the preferred process.

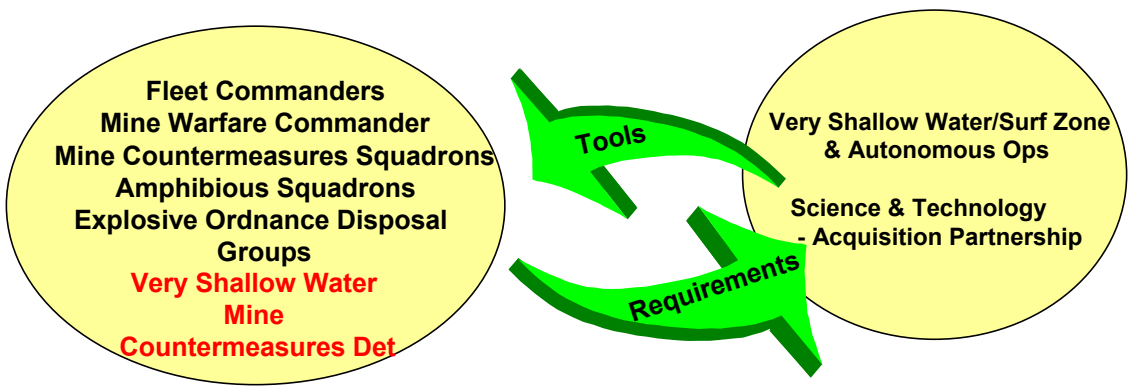
NSCT 1 UUV Perspective:

- 1st Generation Search Classify and Map UUV fielded (FY 03);
- Reacquire and Identify UOES in the fleet

1st Generation NSCT 1 Unmanned Underwater Vehicle Systems:

The "User Operational Evaluation Systems" Concept

- "Fly-then-Buy" Concept
- User Operational Evaluation Systems were; procured and provided to the Fleet to aid in:
  - » Early engagement of Fleet in acquisition
  - » Tactics evaluation and feedback on Fleet employment concepts
  - » Requirements refinement
  - » Affordability,suitability & logistics supportability concerns



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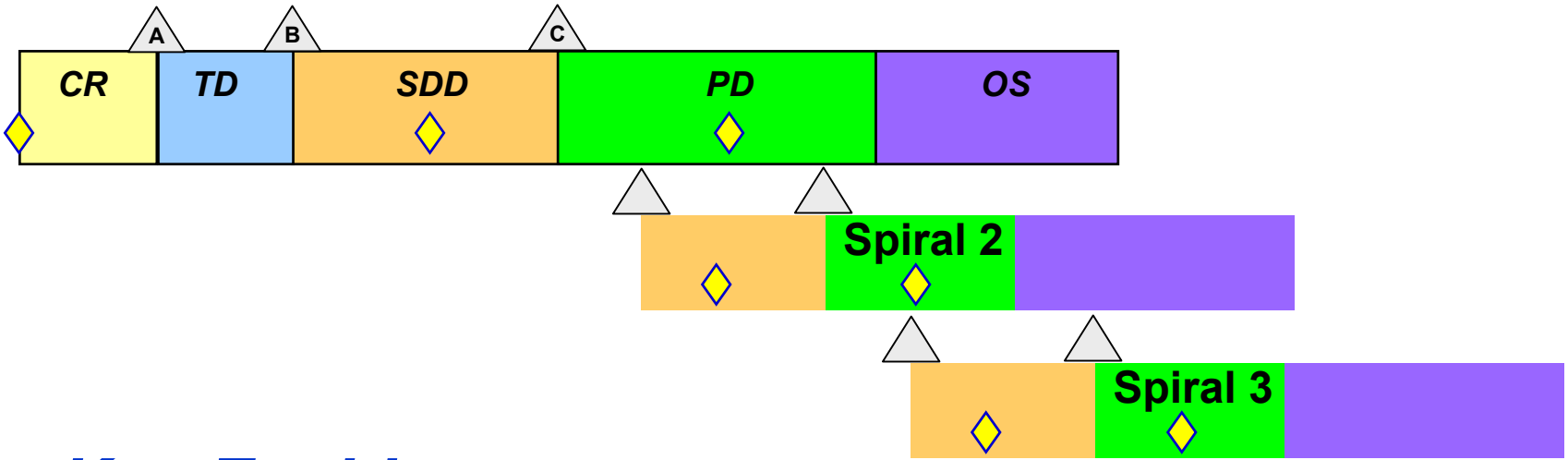
Evolutionary Approach



Key Enablers

- Time-Phased Requirements
- A Modular Open Systems Approach to facilitate Technology Insertion
- Evolutionary Sustainment Strategies
- T&E Consistent with Evolutionary Approach
- Full Funding

NSCT 1
Unmanned Underwater Vehicle Program

VSW MCM UUV-N RFP/Contract Overview

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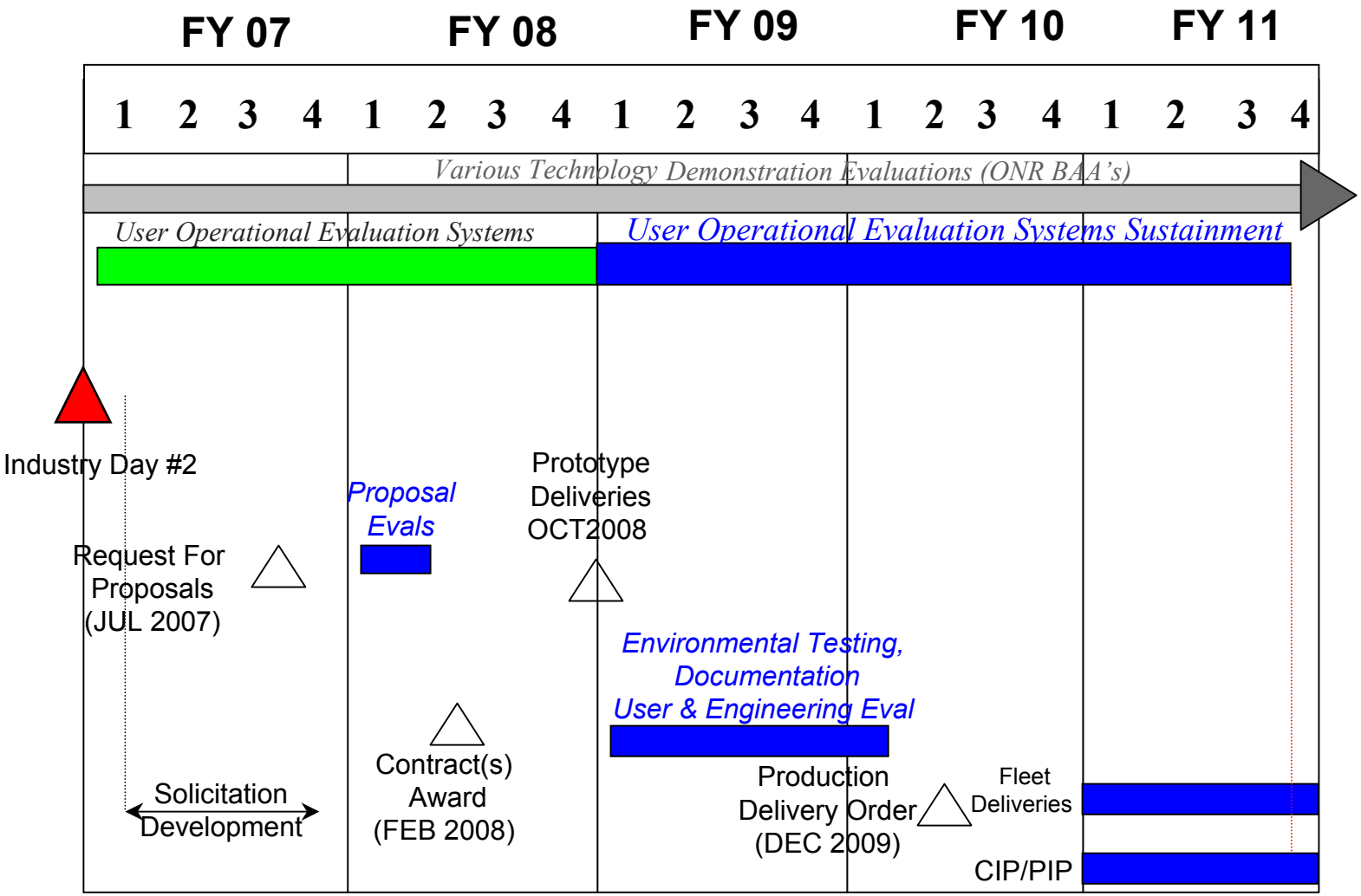
NOTIONAL CONTRACT APPROACH

THREE PHASE APPROACH

- Phase I
  - » Submit documentation requested (design/concept, proven technology, experience in supporting like mission area, examples of past work, etc.)
  - » Pass or Fail
- Phase II
  - » Evaluation
    - – Technical Approach
    - – Vendor Capability
  - » Highly qualified Proceed to next phase
- Phase III
  - » Evaluation
    - – Hardware Sample & Conversion Plan
    - – Technical/Logistic Documentation Sample & Conversion Plan
  - » Best overall value is determined
  - » Contracts could be awarded to more than 1 vendor

NOTIONAL VSW N-UUV PROGRAM SCHEDULE



CONTRACT HIGHLIGHTS

- Inventory Objective: ~ 200 Neutralizers
- Duration of Contract: 10 years
  - » Production
  - » Life Cycle Support
  - » Engineering Services (PIP/CIP)

End of Contract Overview

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Wrap-up

July 19, 2005

Wrap-Up

- Process for Questions/Comments on the Documentation Package.
  - » Industry submit comments/questions to NSWC Indian Head Contracts POC
    - – Jessica.Maddox@navy.mil
  - » Government will provide answer back on the web page and post questions (anonymous) along with answers for all to see back on site, unless otherwise requested by vendor.

Thank You & Thanks to:
Staff of US Navy Memorial &
Mr. Paul Moser (NSWC-PC)